

DEPTH (feet)	DESCRIPTION	LITHOLOGIC LOG	WELL COMPLETION LOG	SAMPLES					Drilling Rate (Time)	REMARKS
				No.	Type	Blow Count	O.V.A. (ppm)			
							Head-Space	Back-Ground		
80	Very dense, saturated, olive brown, SILTY fine grained SAND (SM).									
85	Very stiff, saturated, olive to olive gray, SANDY CLAY (CL), to CLAYEY SAND (SC).			9	X	36	8.5	7.5	1255	
90	Very stiff, saturated, dark gray, SANDY SILT (ML) Bottom of Boring at 91.5 Feet.			10	X	51	8.5	7.5	1327	
95										
100										
105										
110										
115										

Project: DOUGLAS AIRCRAFT CO.
 Project No.: 8941863J

CONT. LOG OF BORING DAC-P1

Fig. 3
 WOODWARD-CLYDE CONSULTANTS
 TOTAL P. 05

See Location Map				ELEVATION AND DATUM		52.43 Feet above MSL					
BORING LOCATION		DRILLER		DATE		DATE					
Gregg Drilling, Inc.		C. Swenson		9-25-89		9-25-89					
DRILLING EQUIPMENT				COMPLETION DEPTH (ft)		ROCK DEPTH (ft)					
Mobile B-57 With 11-Inch O.D., H.S.A.				90.0		-					
TYPE OF WELL CASING		SCREEN PERFORATION		DIAMETER OF BORING (in.)		DIAMETER OF WELL (in.)					
PVC Sch. 40		0.010 Inch		11		4					
TYPE/SIZE OF SAND PACK		TYPE/THICKNESS OF SEAL(S)		LOGGED BY							
Monterey #0/30		-		H. Reyes							
No. OF SAMPLES		DIST.		UNDIST.		CHECKED BY					
-		-		10		P. Glaesman					
WATER DEPTH (ft)		FIRST		COMPL.		24 HRS.					
73.7		-		-		71.05					
DEPTH (feet)	DESCRIPTION	LITHOLOGIC LOG	WELL COMPLETION LOG	SAMPLES						REMARKS	
				No.	Type	Blow Count	Head-Space	Back-Ground	Drilling Rate (Time)		
0	3 inch AC, 3 inch of base sandy gravel.									1020	
5	Very moist, black, CLAY (CH).										
5	Hard, moist, very dark brown, SILTY CLAY (CL), with fine grained sand.			1	X	35	8.8	8.4		1030	
10	Becomes very stiff, moist, olive brown SILTY CLAY (CL).										
15	Very stiff, very moist, olive brown, CLAYEY SILT (MH).			2	X	25	8.6	7.8		1037	
20											
25	Dense, moist, olive brown, SILTY fine grained SAND (SM), some shell fragments.			3	X	39	8.4	7.8		1046	
30	Becomes very dense, yellowish brown with more shells.										
35				4	X	46	8.0	7.8		1057	

Project: DOUGLAS AIRCRAFT CO.

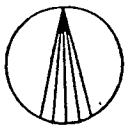
Project No.: 8941863J

LOG OF BORING DAC-P1

Fig. 1

WOODWARD-CLYDE CONSULTANTS

DEPTH (feet)	DESCRIPTION	LITHOLOGIC LOG	WELL COMPLETION LOG	SAMPLES							REMARKS
				No.	Type	Blow Count	O.V.A. (ppm)			Drilling Rate (Time)	
							Head-Space	Back-Ground			
40	Very dense, yellowish brown, SILTY fine grained SAND (SM), with shell fragments.			4	△	46	8.0	7.8	1057		
45	Very stiff, moist, olive, SANDY SILT (ML), with iron oxide staining.			5	⊗	60	11.0	6.5	1107		
50	Very dense, moist, light olive to light olive gray, SILTY fine grained SAND (SM).										
55				6	⊗	92	7.5	6.2	1121		
60											
65				7	⊗	100	8.5	7.7	1134		
70											
75	Very dense, saturated, olive brown, SILTY fine grained SAND (SM).			8	⊗	100	68	7.5	1240		
Project: DOUGLAS AIRCRAFT CO. Project No.: 8941863J											
CONT. LOG OF BORING DAC-P1											
Fig. 2 WOODWARD-CLYDE CONSULTANTS											



INTEGRATED
Environmental Services, Inc.

BUILDING #40

WCC-12S-93
11/11/93
11/11/93

Project Name: McDonnell Douglas C-6 Facility

Location: Los Angeles, CA

Site Id: WCC-12S

Elevation: 47.31'

Datum: Mean Sea Level

Total Depth: 91.50'

X Coordinate: 12749.25

Y Coordinate: 12715.20

Date Started: 09/17/90

Date Completed: 09/17/90

Consulting Firm: WOODWARD-CLYDE

Contractor: A&R DRILLING, INC.

Logged By: H. REYES

Certified By: M. RAZMDJOO

Annular Fill:

type: Grout

fm: 0.00'

to: 52.50'

type: Bentonite Pellets

fm: 52.50'

to: 55.00'

type: Sand Filter

fm: 55.00'

to: 91.50'

Screens:

type: Slotted

size: 0.010 in dia: 4.00 in

fm: 60.00'

to: 90.00'

Blank Casing:

type: PVC

dia: 4.00 in

fm: 0.0'

to: 60.00'

Conductor Casing:

type:

dia: 0.00 in

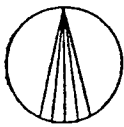
fm: 0.00'

to: 0.00'

Drilling Method: HOLLOW-STEM AUGER

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
								MP. EL. 47.18
					AS		6 inches asphalt/concrete.	
					CL/FL		Moist, dark yellowish-brown, SANDY CLAY with GRAVEL (CL-GP).	
					SM		Medium dense, moist, dark yellowish-brown, fine grained SILTY SAND (SM).	
24		1		22 ppm			With trace CLAY.	
10								
15		2		28 ppm				
					ML/SM		Medium dense, moist, olive brown, SANDY SILT to SILTY SAND (ML-SM).	
18		3		34 ppm				
							Becomes moist to very moist.	
20		4		34 ppm				
					CL		Very stiff, moist, olive brown SANDY CLAY (CL).	
23		5		30 ppm				
					SP/SM		Dense, moist, olive brown, fine grained SAND with SILT (SP-SM).	
30		6		36 ppm				
					ML		Medium dense, moist, olive brown, SANDY SILT (ML), with trace CLAY.	
24		7		38 ppm				
					SP		Dense, moist, yellowish-brown, medium grained SAND (SP).	
40		8		37 ppm				
					SM		Medium dense, moist, yellowish brown, fine grained SILTY SAND (SM), with abundant shells.	
27		9		38 ppm				
					MH/CL		Very stiff, very moist, mottled (olive and yellowish-brown), CLAYEY SILT to SILTY CLAY (MH-CL), with iron oxide veinlets..	
50		10		44 ppm				
					SM		Medium dense, moist to very moist, olive, fine grained SILTY SAND (SM).	
24		11		44 ppm				

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
42			12	42 ppm	ML		Dense, moist, olive brown, SANDY SILT (ML), with some iron oxide veinlets.	
45			13	46 ppm	SM		Dense, wet, olive, fine grained SILTY SAND (SM).	
70	34		14	48 ppm	SP		Very dense, wet, dark yellowish-brown, medium grained SAND (SP).	
64			15	90 ppm	SM		Very dense, wet, olive, fine grained SILTY SAND (SM).	
80	63		16	64 ppm	SP/SM		Very dense, wet, olive gray, medium grained SAND with SILT (SM-SP).	
54			17	66 ppm	SC		Dense, wet olive brown, fine grained CLAYEY SAND (SC), with abundant shell fragments.	
90	35		18	58 ppm			Bottom of boring at 91.5 feet.	
100								
110								
120								
130								
140								



INTEGRATED
Environmental Services, Inc.

Project Name: McDonnell Douglas C-6 Facility

Location: Los Angeles, CA

Site Id: WCC-11S

Elevation: 50.29'

Datum: Mean Sea Level

Total Depth: 91.00'

X Coordinate: 12744.01

Y Coordinate: 13870.68

Date Started: 09/12/90

Date Completed: 09/13/90

Consulting Firm: WOODWARD-CLYDE

Contractor: A&R DRILLING, INC.

Logged By: H. REYES

Certified By: M. RAZMDJGO

Annular Fill:

type: Grout

fm: 0.00'

to: 53.00'

type: Bentonite Pellets

fm: 53.00'

to: 56.00'

type: Sand Filter

fm: 56.00'

to: 91.00'

Screens:

type: Slotted

size: 0.010in dia: 4.00in fm: 60.00'

to: 90.00'

Blank Casing:

type: PVC

dia: 4.00in fm: 0.0'

to: 60.00'

Conductor Casing:

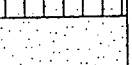
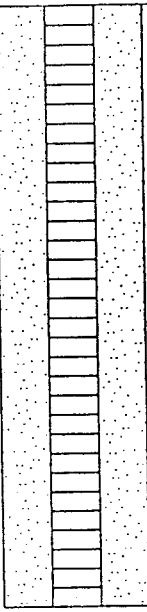




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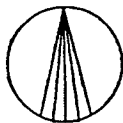
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to: 0.00'

Drilling Method: HOLLOW-STEM AUGER

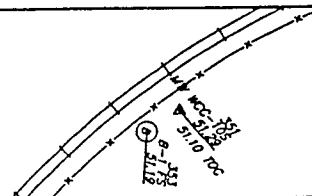
Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
								MP. EL. 50.11
4		1		44 ppm	SM/FL		Damp, yellowish-brown, fine grained SILTY SAND (SM).	
					ML/FL		Moist, olive brown, SANDY SILT (ML).	
10		2		50 ppm	CL/FL		Soft, wet, black, SANDY CLAY (CL).	
27					CL		Very stiff, moist, yellowish-brown, SILTY CLAY (CL).	
		3		34 ppm	ML		Medium dense, moist, dark olive brown, SANDY SILT (ML), micaceous.	
10							Becomes loose, more SANDY.	
20		4		42 ppm			Becomes medium dense, more micaceous.	
		5		33 ppm			Medium dense, moist, dark olive brown, SANDY SILT (ML), micaceous.	
12							With some CLAY.	
30		6		39 ppm	SP		Medium dense, moist, dark yellowish-brown, fine to medium grained SAND (SP).	
		7		32 ppm			Dense, very moist, olive brown, fine grained SILTY SAND (SM).	
28					SM		Lense of dense, moist, gray GRAVEL (GP), rounded, 1 inch size.	
40		8		50 ppm	GP		Very stiff, very moist, olive, CLAYEY SILT (MH), micaceous, with iron oxide staining.	
		9		50 ppm	MH		Dense, moist, olive brown, fine grained SILTY SAND (SM).	
21					SM			
50		10		61 ppm				
		11		62 ppm				
26								

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
33			12	43 ppm	SP		Becomes less SILTY, grading to SAND (SP). Becomes more SILTY, micaceous.	
50			13	52 ppm				
70			14	56 ppm	SP/SM		Becomes wet, dark, olive gray, fine grained SAND with SILT (SP-SM), very micaceous. Dense, wet, dark olive gray, fine grained SAND with SILT (SP-SM), very micaceous.	
46			15	46 ppm	ML		Dense, wet, olive SANDY SILT (ML), thinly bedded.	
80			16	43 ppm	SP/SM		Very dense, wet, olive brown, fine to medium grained SAND with SILT (SP-SM).	
90							Bottom of boring at 91 feet.	
100								
110								
120								
130								
140								



INTEGRATED
Environmental Services, Inc.

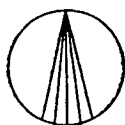
Project Name: McDonnell Douglas C-6 Facility



Location: Los Angeles, CA		Annular Fill:	
Site Id: WCC-105		type: Grout	fm: 0.00' to: 49.00'
Elevation: 51.29'		type: Bentonite Pellets	fm: 49.00' to: 54.00'
Datum: Mean Sea Level		type: Sand Filter	fm: 54.00' to: 90.80'
Total Depth: 90.80'		Screens:	
X Coordinate: 11338.90		type: Slotted	size: 0.010 in dia: 4.00 in fm: 60.00' to: 90.00'
Y Coordinate: 14038.95		Blank Casing:	
Date Started: 06/07/89		type: PVC	dia: 4.00 in fm: 0.0' to: 60.00'
Date Completed: 06/07/89		Conductor Casing:	
Consulting Firm: WOODWARD-CLYDE		type:	dia: 0.00 in fm: 0.00' to: 0.00'
Contractor: A&R DRILLING, INC.		Drilling Method: HOLLOW-STEM AUGER	
Logged By: H. REYES		Certified By: B. JACOBS	

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
								MP. EL. 51.12
				6 ppm	AS/CO		3 1/2 -inch asphalt/ concrete over 9-inch base material.	
				1 ppm	CL		Soft, very moist to saturated, black, SANDY CLAY (CL)	
							Becomes very stiff, moist, dark yellowish brown.	
24		1						
					SM		Medium dense, moist, olive brown, fine grained SILTY SAND (SM), with trace of clay.	
10	13	2		1 ppm			No clay.	
							Becomes very stiff to hard.	
25		3		2 ppm			Very stiff to hard, moist, dark yellowish-brown, SANDY CLAY (CL).	
					CL		Contains large nodules of calcium carbonate (HCL Reaction).	
20	21	4		0 ppm			Dense, moist, olive brown, fine grained SILTY SAND (SM).	
61		5		0 ppm			Dense, moist, olive brown, fine grained SAND to SILTY SAND (SP-SM).	
					SM		Dense to very dense, damp, pale brown, fine grained SAND (SP).	
30	36	6		1 ppm			Becomes olive brown.	
					SP/SM		Dense, moist, olive brown, medium grained GRAVELLY SAND (SW), gravel 1/4" - 1/2" diameter.	
32		7		2 ppm			Very dense, moist, dark olive, fine grained CLAYEY SAND (SC).	
					SP		Very dense, moist, olive, fine grained SILTY SAND (SM).	
40	46	8		1 ppm				
					SW			
55		9		2 ppm				
					SC			
50	43	10		2 ppm				
					SM			
32		11		1 ppm				
90		12		1 ppm				

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
74			13	3 ppm				
70	51		14	ppm			Becomes wet, olive brown.	
99			15	10 ppm				
26							Becomes olive, micaceous.	
80	99		16	6 ppm				
5								
42			17	6 ppm			Becomes medium grained with shell fragments. (Added 25 gallons water to prevent surging sand coming inside the augers.)	
90	3 / 3"		18	6 ppm			Bottom of boring at 90.8 feet.	
							NOTE: Added 40 gallons of water prior to installation of well casing.	
100								
110								
120								
130								
140								



INTEGRATED Environmental Services, Inc.

Project Name: McDonnell Douglas C-6 Facility

Location: Los Angeles, CA

Site Id: WCC-075

Elevation: 48.67'

Datum: Mean Sea Level

Total Depth: 90.50'

X Coordinate: 12730.37

Y Coordinate: 12868.64

Date Started: 06/08/89

Date Completed: 06/08/89

Consulting Firm: WOODWARD-CLYDE

Contractor: A&R DRILLING, INC.

Logged By: P. GLOESMAN

Certified By: M. RAZMDJOO

Annular Fill:

type: Grout fm: 0.00' to: 49.00'
type: Bentonite Pellets fm: 49.00' to: 54.00'
type: Sand Filter fm: 54.00' to: 90.50'

Screens:

type: Slotted size: 0.010in dia: 4.00in fm: 60.00' to: 90.00'

Blank Casing:

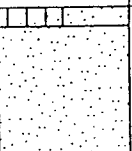
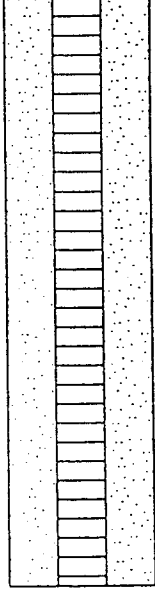
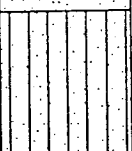
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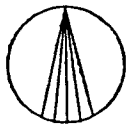
Conductor Casing:

type: dia: 0.00in fm: 0.00' to: 0.00'

Drilling Method: HOLLOW-STEM AUGER

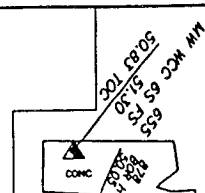
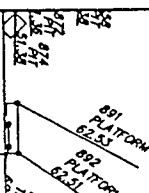
Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
								MP. EL. 48.29
31		1	1	10 ppm	AS/CO		6-inch asphalt/ concrete over 8-inch base material.	
				1 ppm	AS		Hard, moist, black, SANDY CLAY (CL).	
45		2	2	1 ppm	CL		Becomes dark yellowish-brown.	
10				1 ppm				
36		3	3		SM		Medium dense, moist, olive brown, fine grained SILTY SAND (SM).	
14		4	4	3 ppm				
							Becomes dark yellowish-brown, with trace of clay, some decomposed roots.	
20		5	5	2 ppm	CL		Hard, moist, dark olive brown, fine grained SANDY CLAY (CL) with root holes.	
31		6	6	2 ppm	SM		Dense, moist, olive brown, fine grained SILTY SAND (SM).	
30		7	7	2 ppm				
32		8	8	2 ppm			With root holes and small nodules of calcium carbonate (HCL Reaction).	
							Dense, moist, olive brown, fine grained SILTY SAND (SM) with root holes and CaCo nodules.	
40		9	9	3 ppm	SP		Medium dense, moist, dark brown to olive brown, medium grained SAND (SP).	
44		10	10	2 ppm	SP/SM		Dense, moist, olive brown, fine grained SILTY SAND to SILTY SAND (SP-SM).	
50		11	11	3 ppm	CL		Zone of hard, damp, light brown, calcareous material (sand and shell fragments).	
							Very stiff, moist, olive CLAY (CL) mixed with shell fragments and calcareous nodules (appears to be gouge zone).	
35		12	12	2 ppm	SM		Dense, moist, olive fine grained SILTY SAND (SM).	
					CL		Dense, moist, olive SANDY CLAY (CL) with some iron oxide staining.	
38		13	13	1 ppm	SM/SP		Dense, moist, olive brown fine grained SILTY SAND to SAND (SM-SP).	

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
43			14	1 ppm	SP		Dense, very moist, olive gray, fine grained SAND (SP).	
44			15	3 ppm	SM		Dense, very moist, olive, fine grained SILTY SAND (SM), micaceous. Becomes saturated.	
44			16	9 ppm			Dense, saturated, olive, fine grained SILTY SAND (SM), micaceous. Sand becomes fine to medium grained.	
35			17	13 ppm			Becomes very dense, medium grained with few coarse grains, less silt, few shell fragments.	
69			18	7 ppm			Becomes dense, medium to coarse grained, more silt, no shell fragments.	
37			19	0 ppm			Bottom of boring at 90.5 feet.	
*NOTE: Upon completion of drilling and sampling added approximately 60 gallons of tap water to prevent heaving sand coming inside the augers.								
100								
110								
120								
130								
140								



INTEGRATED
Environmental Services, Inc.

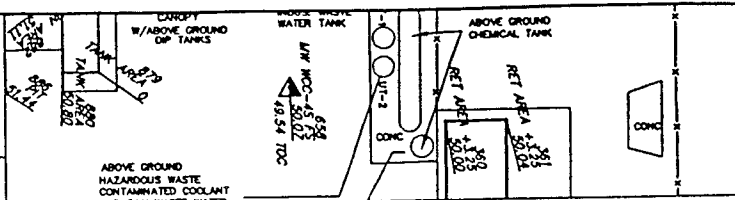
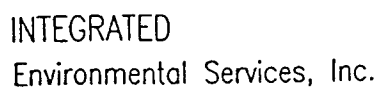
Project Name: McDonnell Douglas C-6 Facility



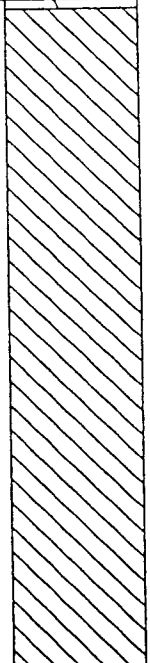
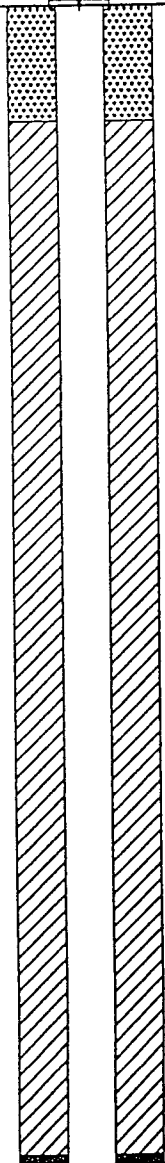
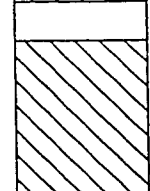


Location: Los Angeles, CA		Annular Fill:		fm: 0.00' to: 5.00'	
Site Id: WCC-055		Elevation: 48.74'		type: Cement fm: 5.00' to: 51.00'	
Datum: Mean Sea Level		Total Depth: 91.00'		type: Grout fm: 51.00' to: 63.50'	
X Coordinate: 12963.89		Y Coordinate: 12998.69		type: Bentonite Pellets	
Date Started: 11/24/87		Date Completed: 11/24/87		Screens:	
Consulting Firm: WOODWARD-CLYDE		Contractor: A&R DRILLING, INC.		type: Slotted size: 0.010 in dia: 4.00 in fm: 61.00' to: 91.00'	
Logged By: B. JACOBS		Certified By: H. REYES		Blank Casing:	
				type: PVC dia: 4.00 in fm: 0.0' to: 61.00'	
				Conductor Casing:	
				type: dia: 0.00 in fm: 0.00' to: 0.00'	
				Drilling Method: HOLLOW-STEM AUGER	

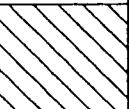
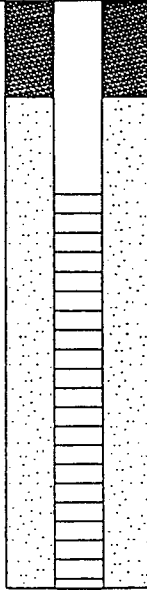
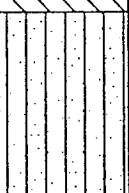
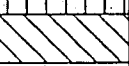
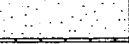

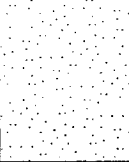

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
								MP. EL. 48.52
				3-4 ppm	CL/ML		Moist, dark olive brown, CLAYEY SILT (CL-ML) with little sand.	
10					CL		Moist, moderate brown SILTY CLAY (CL) with some sand.	
20							Becomes more silty.	
30							Becomes dark yellowish-brown.	
40							Moist, dark yellowish-brown SILTY CLAY (CL) with some organic roots and iron oxide staining.	
34		1		3 ppm	SP		- No odor - Dense, moist, dusky yellow to light olive brown fine grained SAND (SP) with little silt.	
50								
37		2		5 ppm			Interbeds of silty sands and clay. - No odor -	

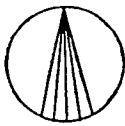
Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
70			3	4 ppm			Becomes very dense. - No odor -	
70								
35			4	3 ppm	SM/ML		Becomes wet. Water encountered at 73 feet. Dense, wet, moderate olive brown, fine grained SILTY SAND (SM-ML). -No odor-	
80								
90							No sample collected	
90							Bottom of boring at 91.5 feet.	
100							*NOTE: 55 gallons of city water used to aid well installation.	
110								
120								
130								
140								



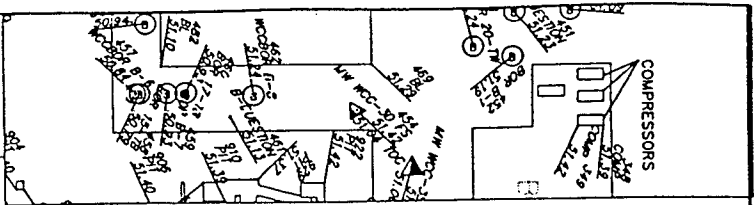
Drilling Method: HOLLOW-STEM AUGER

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
				4-6 ppm	AS CL		Asphalt. Moist, grayish-brown, SILTY CLAY with some SAND (CL). Moist, dark yellowish-brown SILTY CLAY (CL). - No odor -	MP. EL. 49.69 
10								
20								
30								
40					VA CL		Lense of dark greenish-black volcanic angular gravel. Moist, dark yellowish-brown SILTY CLAY (CL).	
48	18		1	8 ppm			Very stiff, organic roots and plant detritus with organic iron oxide staining. - No odor -	
50								
53	23		2	8 ppm			- No odor -	

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
43		3		5 ppm	SM		Occasional fossiliferous gravel. - No odor - Hard light olive brown, fine SANDY SILT to SILT to fine SILTY SAND (SW).	
70								
42		4		7 ppm	CL		Becomes wet. Water encountered at 75 feet. Hard, damp, light olive brown SILTY CLAY (CL) with iron oxide staining.	
80					SP		Very dense, light olive brown, fine grained SAND (SP) with little silt.	
45		5		8 ppm	SB		2-inch layer of CLAY (CL). - No odor -	
							Very dense, wet, light olive brown, fine grained SAND(SP) with little silt.	
90				8 ppm	CL/ML		Moist, light olive brown, SILTY CLAY (ML-CL). - No odor - Bottom of boring at 91.5 feet.	
							*NOTE: 45 gallons of city water used to offset hydrostatic head at flowing sands during well installation.	
100								
110								
120								
130								
140								



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Project Name: McDonnell Douglas C-6 Facility

Location: Los Angeles, CA

Site Id: WCC-03D

Elevation: 51.42'

Datum: Mean Sea Level

Total Depth: 140.00'

X Coordinate: 12583.61

Y Coordinate: 13265.87

Date Started: 06/23/89

Date Completed: 06/27/89

Consulting Firm: WOODWARD-CLYDE

Contractor: BEYLIK DRILLING

Logged By: H. REYES

Certified By: M. RAZMDJOO

Annular Fill:

type: Cement

fm: 0.00'

to: 5.00'

type: Grout

fm: 5.00'

to: 106.00'

type: Bentonite Pellets

fm: 106.00'

to: 115.00'

Screens:

type: Slotted

size: 0.010in dia: 4.00in fm: 120.00'

to: 140.00'

Blank Casing:

type: PVC

dia: 4.00in fm: 0.0'

to: 120.00'

Conductor Casing:

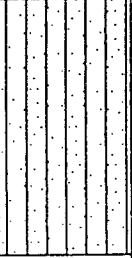
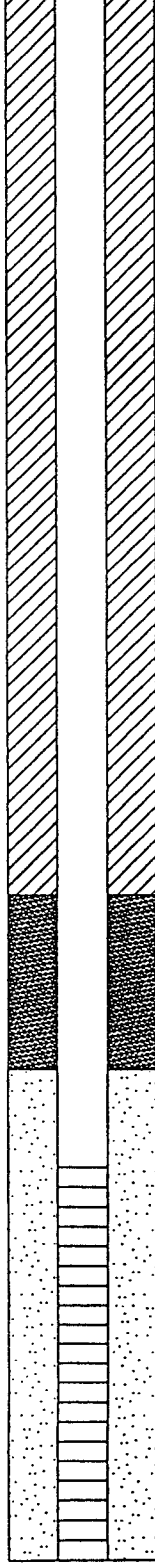
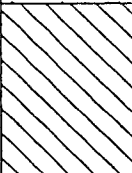
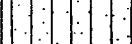
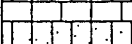
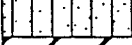
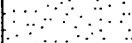
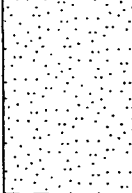
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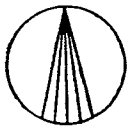
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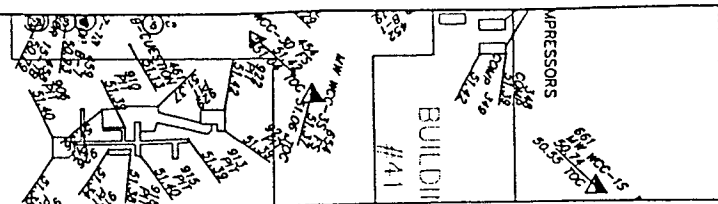
Drilling Method: HOLLOW-STEM AUGER

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction MP. EL. 51.18
0					AS/CO SM		6-inch asphalt and concrete cover. 6-inch base material. Dark yellowish-brown, fine grained SILTY SAND (SM).	
10							Dark yellowish-brown, fine grained SILTY SAND (SM) with some clay.	
20							Becomes olive brown, fine to medium grained SILTY SAND (SM).	
30							Becomes clayey with some calcareous nodules.	
40					CL		Olive brown, fine to medium grained SILTY SAND (SM) with trace of clay, some calcareous nodules.	
50					SM		Olive brown SILTY CLAY (CL), with coarse grained sand.	
							Olive brown, fine grained SAND (SM) with some coarse grained sand and abundant shell fragments.	

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
70					SP		More coarse grained sand. Olive brown, medium grained SAND (SP). Olive brown, fine to medium grained SAND (SM) with abundant shell fragments.	
80							Lense of dark yellowish-brown, coarse grained SAND (SP), slight chemical odor - drilling mud foamed up.	
90							Lens of dark yellowish-brown coarse grained SAND (SP).	
100							Grayish brown, fine to medium grained SAND (SM) with abundant shell fragments.	
110					CL		Dark yellowish-brown, SILTY CLAY (CL).	
120					SM		Olive brown, fine grained SILTY SAND (SM).	
					ML		Olive brown SANDY SILT (ML), micaceous.	
					SM		Olive brown, fine to medium grained SILTY SAND (SM).	
					CH		Olive brown CLAY (CH).	
130					SP		Olive brown, medium grained SAND (SP). Hard reddish-brown SANDSTONE. Hard, light yellowish-brown to bluish-gray, SILTY CLAYSTONE.	
140							Bottom of boring at 140 feet. Initial drilling and sampling was completed on 23 and 26 June 1989. Boring was enlarged and well was constructed on 27 June 1989.	



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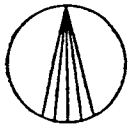
Project Name: McDonnell Douglas C-6 Facility

Location: Los Angeles, CA

Site Id: WCC-03S	Elevation: 51.37'	type: Grout type: Bentonite Pellets	fm: 6.00' fm: 58.50'	to: 58.50' to: 64.00'
Datum: Mean Sea Level	Total Depth: 92.00'	Screens: type: Slotted size: 0.010in dia: 4.00in fm: 69.00' to: 89.00'		
X Coordinate: 12608.51	Y Coordinate: 13238.90			
Date Started: 10/26/87	Date Completed: 10/26/87	Blank Casing: type: PVC	dia: 4.00in fm: 0.0'	to: 69.00'
Consulting Firm: WOODWARD-CLYDE		Conductor Casing: type:	dia: 0.00in fm: 0.00'	to: 0.00'
Contractor: A&R DRILLING, INC.				
Logged By: H. REYES	Certified By: B. JACOBS	Drilling Method: HOLLOW-STEM AUGER		

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction MP. EL. 51.37
0				4-6 ppm	AS SM CL		Asphalt. Damp, very dark grayish-brown, fine grained SILTY SAND (SM) with small gravel. Soft, very moist, dark gray yellowish-brown, stiff. Becomes less moist, dark yellowish-brown, stiff.	
10							Continued SILTY CLAY (CL). Becomes more stiff, no detectable odor.	
20					SC/CL CL		Dense, moist, yellowish-brown, CLAYEY SAND to SANDY CLAY (SC-CL). -No odor- Grades to SILTY CLAY (CL). Stiff, moist, dark yellowish-brown SILTY CLAY	
30							-No odor- Lense of volcanic ash.	
40							Stiff, moist, olive brown SILTY CLAY (CL).	
45	25	1		25 ppm	ML CL		Lens of stiff, moist, olive SANDY SILT (ML), micaceous with decomposed peices of roots. -Earthy odor- Stiff, moist, olive brown SILTY CLAY (CL) continued.	
50							Clay becomes more stiff, interbedded with lenses of dense, moist, yellowish-brown, medium grained SILTY SAND (SM) with shells, partially cemented and crystalized calcite. -Moderate chemical odor-	
55	30	2		570 ppm				

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
46		3		440 ppm	SM/SP		Dense, moist, yellowish-brown to olive-gray, very fine grained SILTY SAND to SAND (SM_SP), micaceous. -Moderate to strong chemical odor-	
70	35	4		1000+ ppm	ML		Very stiff, very moist, olive brown, SANDY SILT (ML), micaceous with iron oxide stains. -Strong chemical odor-	
59		5		1000+ ppm	SP/SM		Becomes wet. Water encountered. Very dense, wet, olive brown, fine grained SAND (SP) to SILTY SAND (SM). -Strong chemical odor-	
80		6		1000+ ppm			Becomes medium grained. Very dense, saturated, olive-brown, fine to medium grained SAND (SP-SM) with some silt. -Moderate to strong chemical odor-	
90							Bottom of boring at 92.0 feet.	
100							*NOTE: Used 59 gallons of city water to offset hydrostatic head of flowing sands during well installation	
110								
120								
130								
140								



INTEGRATED
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Project Name: McDonnell Douglas C-6 Facility

Location: Los Angeles, CA

Site Id: WCC-02S

Elevation: 50.83'

Datum: Mean Sea Level

Total Depth: 90.50'

X Coordinate: 12234.27

Y Coordinate: 13451.60

Date Started: 10/28/87

Date Completed: 10/28/87

Consulting Firm: WOODWARD-CLYDE

Contractor: A&R DRILLING, INC.

Logged By: H. REYES

Certified By: B. JACOBS

Annular Fill:

type: Cement

fm: 0.00'

to: 6.00'

type: Grout

fm: 6.00'

to: 56.00'

type: Bentonite Pellets

fm: 56.00'

to: 63.00'

Screens:

type: Slotted

size: 0.010in dia: 4.00in fm: 70.00'

to: 90.00'

Blank Casing:

type: PVC

dia: 4.00in fm: 0.0'

to: 70.00'

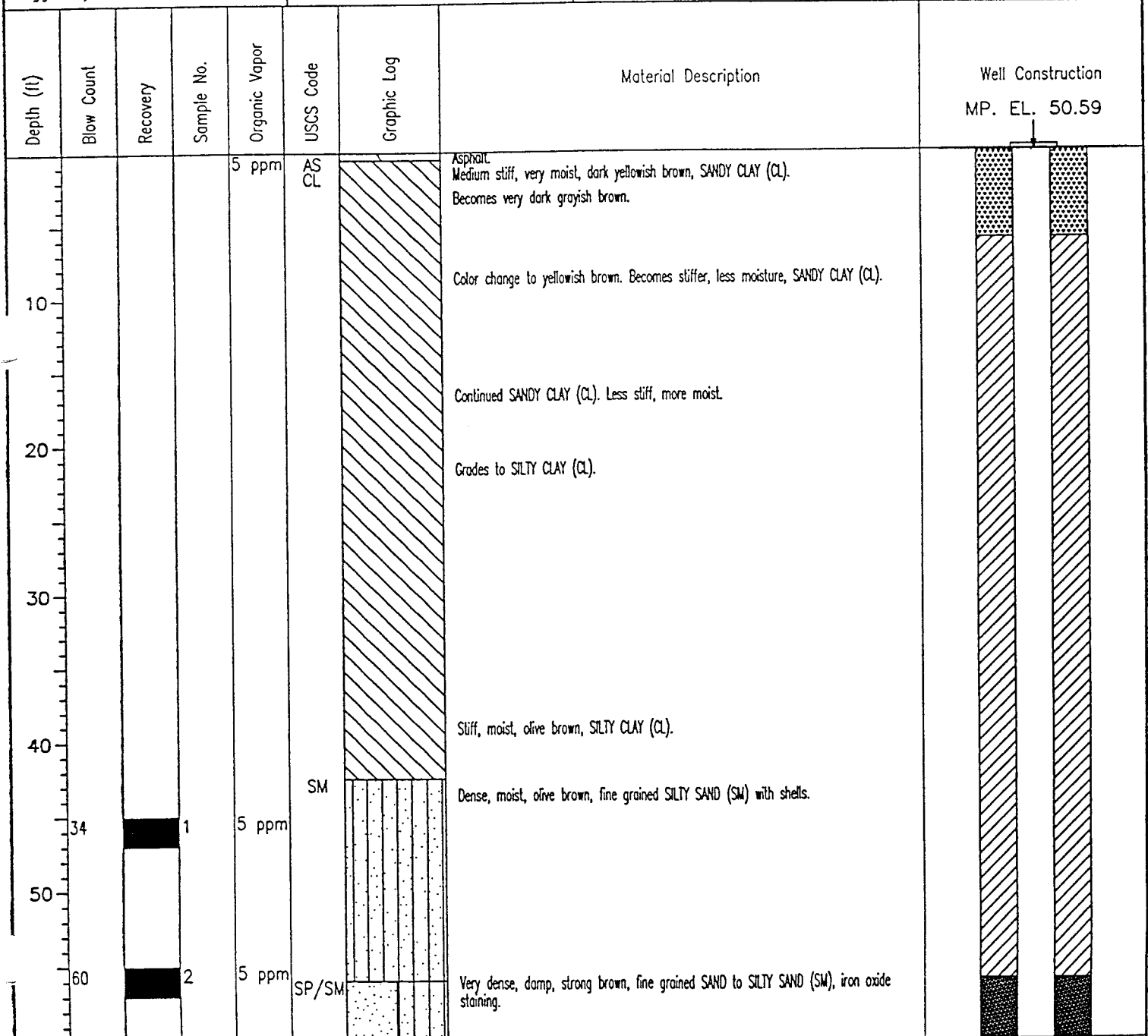
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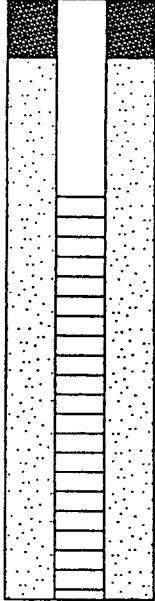
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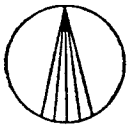
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to: 0.00'

Drilling Method: HOLLOW-STEM AUGER



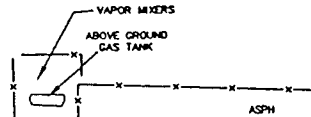
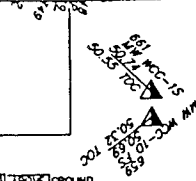
Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
42		3		6 ppm	SM		Becomes SILTY SAND (SM). Dense, moist, olive, fine grained SILTY SAND (SM), some iron oxide stains.	
70							Becomes wet. Water encountered at 73 feet.	
68		4		6 ppm			Very dense, wet, olive brown, fine grained SILTY SAND (SM).	
80							Very dense, wet, olive, fine grained to very fine grained SILTY SAND (SM), micaceous, with some clay interbedding and iron oxide staining.	
50 / 3"		5		5 ppm			Bottom of boring at 90.5 feet.	
90							*NOTE: 48 gallons of city water used to offset hydrostatic head of flowing sands during well installation	
100								
110								
120								
130								
140								



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BUILDING
#41

RELEASE
TRAP



Project Name: McDonnell Douglas C-6 Facility

Location: Los Angeles, CA

Site Id: WCC-01S

Elevation: 50.74'

Datum: Mean Sea Level

Total Depth: 91.00'

X Coordinate: 12738.89

Y Coordinate: 13194.03

Date Started: 03/25/87

Date Completed: 03/25/87

Consulting Firm: WOODWARD-CLYDE

Contractor: DATUM EXPLORATION

Logged By: S. DONALDSON

Certified By: B. JACOBS

Annular Fill:
type: Cement fm: 0.00' to: 2.50'
type: Grout fm: 2.50' to: 72.00'
type: Bentonite Pellets fm: 72.00' to: 74.00'

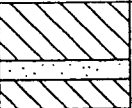
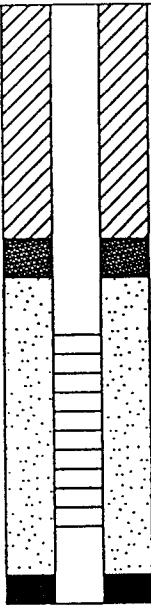
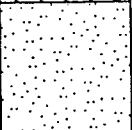
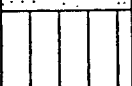
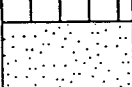


Screens:
type: Slotted size: 0.020in dia: 2.00in fm: 77.00' to: 87.00'

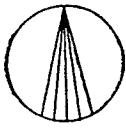
Blank Casing:
type: PVC dia: 2.00in fm: 0.0' to: 77.00'

Conductor Casing:
type: dia: 0.00in fm: 0.00' to: 0.00'

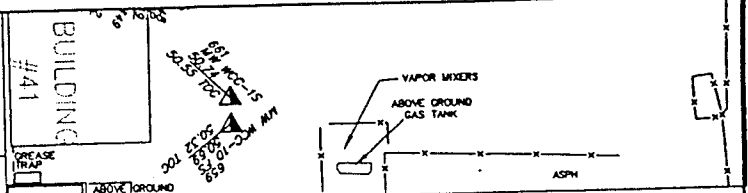
Drilling Method: HOLLOW-STEM AUGER

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction MP. EL. 50.70
10				1-2 ppm	AS SP		Asphalt. Damp reddish-brown, SILTY SAND (SP) with clay and gravel. Becomes black. Becomes reddish-brown, no gravel. Becomes medium brown.	
20					SC SP		CLAYEY SAND (SC).	
30					ML		Stiff, damp, medium brown, CLAYEY SILT (ML) with some fine sand. Becomes hard with more clay	
40					VA ML		Lense of volcanic (?) angular gravel. Becomes moist and hard.	
50					CL		Very hard, moist, dark brown, SILTY CLAY (CL). Lenses of very hard, carbonate cemented concretions.	
59			1					
26			2	1 ppm				
							Increasing silt.	

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
57			3	7.5 ppm	SP CL SP		Medium dense, dry, tan, fine SAND (SP) Dense, dry, whitish-tan, fine SAND (SP).	
70	50 5"		4	2.5 ppm			Becomes damp and very dense.	
					ML		Very stiff, damp, dark brown SILT (ML). Becomes wet. Water encountered at 74.5 feet.	
50 5"			5	7.8 ppm			Very dense, wet, brown, fine SAND (SP).	
80	12		6		SP			
90					CL		Stiff, moist, dark brown, SILTY CLAY (CL). Bottom of boring at 91 feet.	
100								
110								
120								
130								
140								



INTEGRATED
Environmental Services, Inc.



Project Name: McDonnell Douglas C-6 Facility

Location: Los Angeles, CA

Site Id: WCC-01D

Elevation: 50.69'

Datum: Mean Sea Level

Total Depth: 140.00'

X Coordinate: 12739.11

Y Coordinate: 13181.09

Date Started: 06/28/89

Date Completed: 06/30/89

Consulting Firm: WOODWARD-CLYDE

Contractor: BEYLIK DRILLING

Logged By: H. REYES

Certified By: M. RAZMDJOO

Annular Fill:
type: Cement fm: 0.00' to: 3.00'
type: Grout fm: 3.00' to: 109.00'
type: Bentonite Pellets fm: 109.00' to: 114.00'

Screens:
type: Slotted size: 0.010in dia: 4.00in fm: 120.00' to: 140.00'

Blank Casing:
type: PVC dia: 4.00in fm: 0.0' to: 120.00'

Conductor Casing:
type: dia: 0.00in fm: 0.00' to: 0.00'

Drilling Method: HOLLOW-STEM AUGER

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS	Graphic Log	Material Description	Well Construction MP. EL. 50.45
0					AS SC		6-inch Asphalt concrete over 6-inch base material. Dark yellowish-brown, CLAYEY SAND (SC) fine grained, with small diameter gravel.	
10					CL		Dark yellowish-brown, SILTY CLAY (CL), with fine grained sand.	
20					SM		Dark yellowish-brown, SILTY CLAY (CL), micaceous. Dark yellowish-brown, SILTY SAND (SM), fine grained.	
30					CL SM		Dark yellowish-brown, SILTY CLAY (CL). Dark yellowish-brown, SILTY SAND (SM), fine grained.	
40					SP/SM		Olive brown, medium grained SAND (SP-SM) with small diam. gravel and shell fragments	
50								

Depth (ft)	Blow Count	Recovery	Sample No.	Organic Vapor	USCS Code	Graphic Log	Material Description	Well Construction
65					CL		Dark yellowish-brown, SILTY SANDS (SM), fine grained.	
70					SP/SM		Yellowish-brown, fine grained SAND (SP-SM) with small diam. gravel and shell fragments.	
80							Becomes olive brown. Olive brown, fine grained SAND (SP-SM) with shell fragments.	
90							Becomes medium grained.	
100							Abundant shell fragments.	
110					CL		Bluish-gray and light yellowish-brown, SILTY CLAY (CL).	
120					SP/SM		Olive brown, fine to medium grained SAND (SP-SM).	
121		1			ML		Hard, olive, SILT (ML), micaceous (SILTSTONE).	
122					SP		Olive brown, medium grained SAND (SP).	
123		2			ML		Moist, olive SILT (ML), micaceous.	
124					SM		Olive, SILTY SAND (SM), fine grained.	
125					SP		Dark yellowish-brown, medium grained SAND (SP).	
130		3						
135		4						
140					CL		Dark yellowish-brown and bluish-gray SILTY CLAY (SP).	
							Bottom of boring at 140 feet. Initial drilling and sampling was completed on 28 June 1989. Boring was enlarged and well was constructed on 29 and 30 June 1989.	